

a belt structure between the toroidal carcass and the tread band, axially extending between the sidewalls;

wherein the tread band comprises at least first and second circumferential axially-contiguous portions,

wherein the first portion is formed of a first composition comprising a first reinforcing filler including white filler and carbon black,

wherein the first reinforcing filler includes at least 40%-by-weight carbon black,

wherein the second portion is formed of a second composition comprising a second reinforcing filler including white filler,

wherein the second reinforcing filler includes at least 20%-by-weight white filler,

wherein the first composition is different from the second composition, and

wherein a difference of compositions between the at least first and second portions achieves a tyre operating temperature lower than a reference temperature.

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48. (new) The tyre of claim 47, wherein the first reinforcing filler includes no more than 60%-by-weight white filler.

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49. (new) The tyre of claim 47, wherein the first reinforcing filler includes about 32%-by-weight white filler.

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50. (new) The tyre of claim 47, wherein the first reinforcing filler includes at least about 32%-by-weight white filler.

LAW OFFICES

FINNEGAN, HENDERSON,
FARABOW, GARRETT,
& DUNNER, L.L.P.
1300 I STREET, N.W.
WASHINGTON, DC 20005
202-408-4000

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~~2651. (new) The tyre of claim 47, wherein the first reinforcing filler includes between 32%-by-weight white filler and 60%-by-weight white filler.~~

2751. (new) The tyre of claim 47, wherein an amount of white filler in the second reinforcing filler is at least 20%-by-weight greater than an amount of white filler in the first reinforcing filler.

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2851. (new) The tyre of claim 47, wherein the at least first and second portions each pass through an entire radial thickness of the tread band.

2951. (new) The tyre of claim 47, wherein the at least first and second portions are not radially-contiguous portions.

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~~3051. (new) A tyre for a wheel of a vehicle, comprising:
a toroidal carcass provided with axially-opposite sidewalls and beads for anchoring the tyre to a rim of the wheel;
a tread band radially-external to the toroidal carcass, comprising a surface with a plurality of hollows and grooves defining a tread pattern; and
a belt structure between the toroidal carcass and the tread band, axially extending between the sidewalls;
wherein the tread band comprises at least first and second circumferential axially-contiguous portions.~~

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202-408-4000

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wherein the first portion is formed of a first composition comprising a first reinforcing filler including white filler and carbon black,
wherein the first reinforcing filler includes at least 40%-by-weight carbon black,
wherein the second portion is formed of a second composition comprising a second reinforcing filler including white filler,
wherein the second reinforcing filler includes at least 20%-by-weight white filler,
wherein the first composition is different from the second composition, and
wherein the first reinforcing filler includes an amount of white filler effective to achieve a tyre operating temperature lower than a reference temperature.

31 56. (new) The tyre of claim 55, wherein the first reinforcing filler includes no more than 60%-by-weight white filler.

32 57. (new) The tyre of claim 55, wherein the first reinforcing filler includes about 32%-by-weight white filler.

33 58. (new) The tyre of claim 55, wherein the first reinforcing filler includes at least about 32%-by-weight white filler.

34 59. (new) The tyre of claim 55, wherein the first reinforcing filler includes between 32%-by-weight white filler and 60%-by-weight white filler.

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202-408-4000